avgear

USER MANUAL

AVG-HDIP100

HD Video Streaming Transmitter & Receiver

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Version: HDIP100_2015V1.0

AVG-HDIP100 is a HD Video Streaming media set including both transmitter and receiver.

Features

- HD interface for digital audio and 1080p@60Hz (max) video up to 175/200m with CAT5e/CAT6
- 1 RJ45 port for Ethernet connection
- HDMI 1.3 & HDCP 1.3 compliant
- Input resolutionpassed through to output
- Intuitive indicator for power connection & signal transmission status
- Broadcast HDMI signal from 1 transmitter to 1 or several receiver(s)
- Powered by adapter or Ethernet Switch with PoE solution
- Compact design for easy operation

PLEASE READ THIS PRODUCT MANUAL CAREFULLY BEFORE USING THIS PRODUCT.

This manual is only for operation instruction only, and is not to be used in a maintenance capacity. The functions described in this version are current as at March 2015. Any changes of functions and operational parameters will be updated in future manual versions. Please refer to your dealer for the latest product details.

Version 1.0 1/3/15

SAFETY OPERATION GUIDE

In order to guarantee the reliable operation of the equipment and safety of the user, please abide by the following procedures in installation, use and maintenance:

1. The system must be earthed properly. Please do not use two blade plugs and ensure the AC power supply ranges from 100v to 240v and from 50Hz to 60Hz.
2. Do not install the device in an environment where it will be exposed to extreme hot or cold temperatures.
3. This unit will generate heat during operation, please ensure that you allow adequate ventilation to ensure reliable operation.
4. Please disconnect the unit from mains power if it will be left unused for a long period of time.
5. Please DO NOT try to open the casing of the equipment, DO NOT attempt to repair the unit. Opening the unit will void the warranty. There are high voltage components iside the unit and attempting to repair the unit could result in serious injury.
6. Do not allow the unit to come into contact with any liquid as that could result in personal injury and product failure.

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1. Introduction

1.1. Introduction to the AVG-HDIP100

AVG-HDIP100 is a HD Video Streaming media unit that includes both a transmitter and receiver.

Accommodating HD video ports and IP ports, AVG-HDIP100 features real-time AV coding (transmitter) and decoding (receiver) to broadcast 1080p (max) HDMI & DVI signals from 1 transmitter to 1 or several receivers with an Ethernet Switch managing the distribution. It can also be powered using a PoE solution for up to 200m via a single CAT6.

1.2. Features

- HD interface for digital audio and 1080p@60Hz (max) video up to 175/200m with CAT5e/CAT6
- 1 RJ45 port for Ethernet connection
- HDMI 1.3 & HDCP 1.3 compliant
- Input resolution passed through to output
- Intuitive indicator for power connection & signal transmission status
- Broadcast a HDMI signal from 1 transmitter to 1 or several receiver(s)
- Powered by adapters or an Ethernet Switch with PoE solution
- Compact design for easy operation

2. Package List

- 1 x AVG-HDIP100 (Transmitter and Receiver)
- 2 x Mounting ears (6 x Screws)
- 4 x Plastic cushions (4 x Screws)
- 1 x Power Adapter (DC 5V 1A)
- 1 x User manual

Note: Please confirm if the product and the accessories are all included, if not, please contact your dealer.

3. System Connection

3.1 System Applications

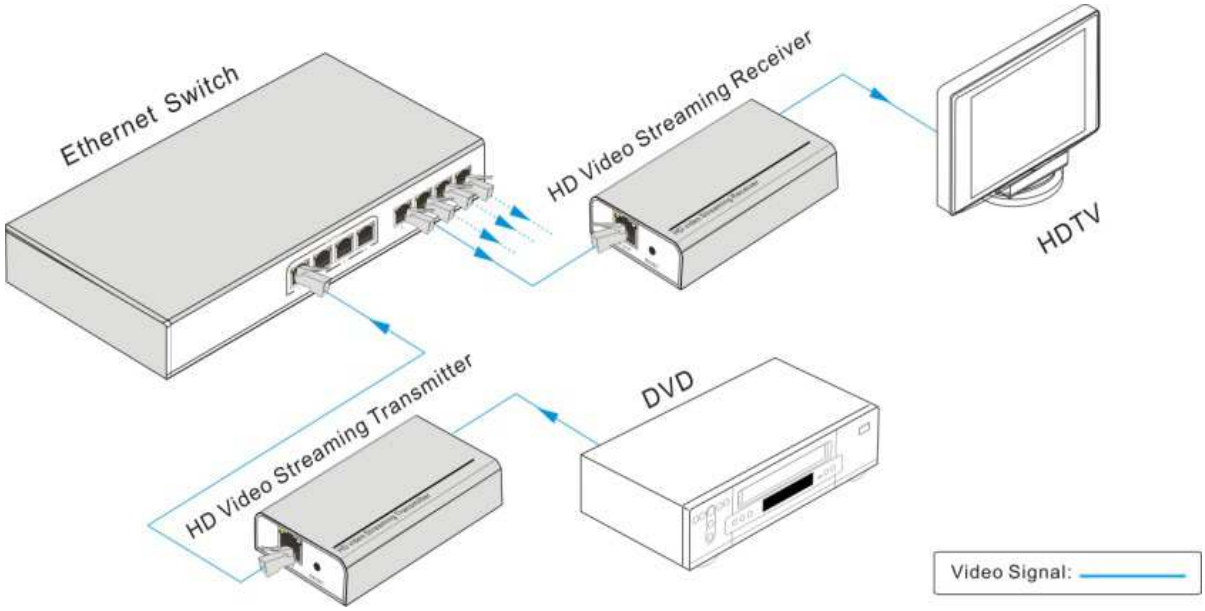
Reliable performance for control and transmission makes the AVG-HDIP100 ideal in the IT computer space, signal monitoring, big screen displays, conference systems, television broadcast, education, banking and security institutions etc.

3.2. Usage Precautions

1. System should be installed in a clean environment with temperature and humidity maintained to within equipment specification.
2. All of the power switches, plugs, sockets and power cords should be insulated and safe.
3. All devices should be connected before power is turned on.

3.3. Connection Diagram

The figure below illustrates a typical connection that can be utilized with the HD Video Streaming transmitter & receiver:



4. Specification

Input			
Input		1 HDMI, 1 IP	
Input Connector		1 female type A HDMI 1.4, 1 RJ45	
Min/ Max Signal Level		T.M.D.S. 2.9V~3.3V	
Output			
Output		1 HDMI, 1 IP	
Output Connector		1 female type A HDMI 1.4, 1 RJ45	
Min/ Max Signal Level		T.M.D.S. 2.9V~3.3V	
Output Impedance		Differential 100Ω	
Standards		Compliant with HDMI 1.3& HDCP 1.3	
General			
Transmission Distance	200m (CAT6) 175m (CAT5e)	Power Consumption	transmitter: 4.2W receiver: 3.5W
Power Supply	DC 5V 1A	Resolution	1080P@60Hz(Max)
Temperature	0 ~ 50℃	Humidity	10% ~ 90%
Weight	80g	Dimension	121x21x60mm (W*H*D)